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Clark

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(54) **WINDJET TURBINE**

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(58) **Field of Search** 454/18, 19

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,857,762 A	*	5/1932	Meadows	454/19 X
1,977,934 A	*	10/1934	Bolton	454/18
2,013,244 A	*	9/1935	LaVergne	454/19 X
2,469,096 A	*	5/1949	Wilson	454/18
3,460,855 A	*	8/1969	Belden	454/18 X
3,797,374 A		3/1974	Jones	
3,893,383 A		7/1975	Jones	
3,952,638 A		4/1976	Felter et al.	
4,086,028 A		4/1978	Felter	416/227 A
4,303,375 A		12/1981	Foglesong et al.	416/167
4,379,972 A		4/1983	Sosa et al.	290/44
4,641,571 A		2/1987	Anderson et al.	
4,648,312 A		3/1987	Schad	
4,759,272 A		7/1988	Zaniewski	
5,326,313 A		7/1994	Miniat	454/18
5,332,354 A		7/1994	Lamont	415/4.2
5,336,050 A		8/1994	Guida et al.	416/186 R
5,447,412 A		9/1995	Lamont	415/4.2
5,503,530 A		4/1996	Walters	416/197 A
5,571,045 A	*	11/1996	Tsung	454/18
5,664,418 A		9/1997	Walters	60/398

FOREIGN PATENT DOCUMENTS

GB	21885 A	*	of 1896	454/18
GB	26938 A	*	12/1906	454/18
JP	45-15549 A	*	5/1970	454/18

* cited by examiner

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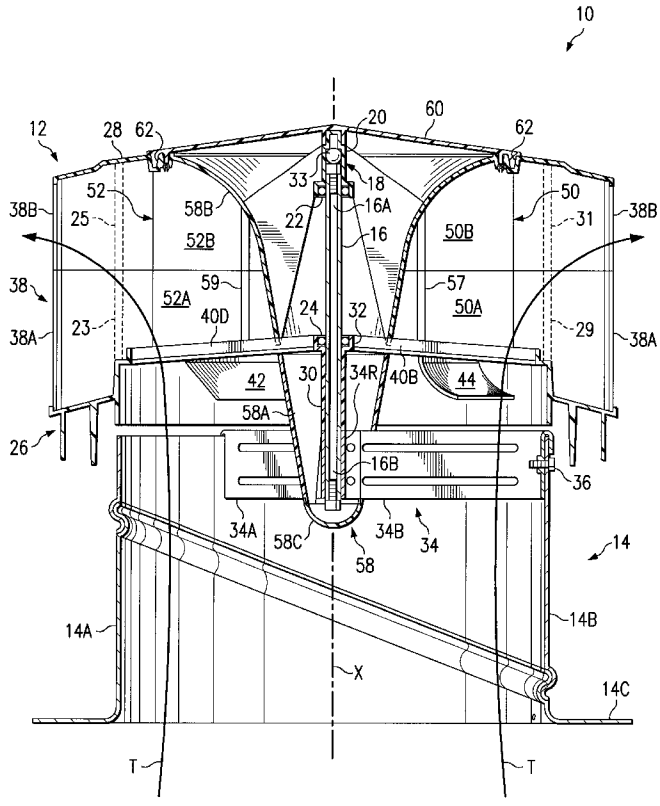
(57) **ABSTRACT**

A roof-mounted wind turbine includes turbine vanes that are linear-shaped and do not have the conventional convex curvature. Additionally, the turbine vanes are made in common with one another or with a common turbine component, so that each vane does not require individual handling nor individual attachment to the turbine assembly as is required in the construction of conventional wind turbines that are commercially available today. This is accomplished by producing the vanes by molding or extruding techniques that are commonly used in making plastic assemblies or components.

19 Claims, 9 Drawing Sheets